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Application No./Patent No./Control No:7,342,981	STATEMENT UNDER 37 CFR 3.73(b)
Entitled: DIGITAL RECEIVER HAVING ADAPTIVE CARRIER RECOVERY CIRCUIT  Broadcom Corporation  (Type of Assignee: corporation)  (Type of Assignee: corporation)  (Type of Assignee: corporation)  (Type of Assignee: corporation)  (Type of Assignee: corporation, partnership, university, government agency, etc.)  states that it is:  1. So the assignee of less than the entire right, title, and interest, or corporation assignee of less than the entire right, title, and interest (The extent (by percentage) of its cownership interest is	Applicant/Patent Owner: Supat Wongwirawat, Azzedine Touzni, Mark Hryszko, Raul A. Casas, Yiwen Yu
Broadcom Corporation   a corporation	Application No./Patent No./Control No.: 7.342,981 Filed/Issue Date: March 11, 2008
(Type of Assignees: corposation, partnership, university, government agency, etc.)	Entitled: DIGITAL RECEIVER HAVING ADAPTIVE CARRIER RECOVERY CIRCUIT
states that it is:  1.	Broadcom Corporation , a corporation
1.	(Name of Assignee) (Type of Assignee: corporation, partnership, university, government agency, etc.)
2. □ an assignee of less than the entire right, title, and interest. (The extent (by percentage) of its ownership interest is	states that it is:
(The extent (by percentage) of its ownership interest is	<ol> <li>the assignee of the entire right, title, and interest; or</li> </ol>
A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel ☐ Frame ☐ or a true copy of the original assignment is attached.  OR  B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:  1. From: Supat Wongwirawst, Azzedina Touzni, Mark Hnysko, Raul A. Casas, Ywen Yu The document was recorded in the United States Patent and Trademark Office at Reel 014894. Frame 0682, or for which a copy thereof is attached.  2. From: All Technologies Inc. To All Technologies Inc. The document was recorded in the United States Patent and Trademark Office at Reel 021679. Frame 0230, or for which a copy thereof is attached.  3. From: Advanced Micro Devices, A'll Technologies U.C. A'll Technologies SRI. To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reel 02205. Frame 0230, or for which a copy thereof is attached.  ☐ Additional documents in the chain of title are listed on a supplemental sheet.  As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.  [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR 9.713, to record the assignment in the records of the USPTO. See MPEP 302.08]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.  (Christopher C. Winslade)  Printed or Typed Name Altomey/Agent of Record  Title	
States Patent and Trademark Office at Reel Frame or a true copy of the original assignment is attached.  OR  B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:  1. From: Supart Wongwirawat, Azzedine Touzni, Mark Hnezko, Raul A. Casas, Yiwen Yu The document was recorded in the United States Patent and Trademark Office at Reel (1914894, Frame 1928), or for which a copy thereof is attached.  2. From: ATI Technologies Inc. The document was recorded in the United States Patent and Trademark Office at Reel (1914879, Frame 1923), or for which a copy thereof is attached.  3. From: Advanced Micro Devices, ATI Technologies ULC, ATI Technologies SRL. To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reel (192083). Frame (1933), or for which a copy thereof is attached.  □ Additional documents in the chain of title are listed on a supplemental sheet.  As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignment in the records of the USPTO, Sea MPEP 302.08)  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.  (Christopher C. Winslade/ Signature Christopher C. Winslade/ Printed or Typed Name Attorney/Agent of Record Title	in the patent application/patent identified above by virtue of either:
B. Machain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:  1. From: Sunat Mongwirawat, Azzedina Touzni, Mark, Hroszko, Raul A. Cassa, Yiwen Yu. The document was recorded in the United States Patent and Trademark Office at Reed 014894, Frame 0982, or for which a copy thereof is attached.  2. From: ATI Technologies Inc. The document was recorded in the United States Patent and Trademark Office at Reed 0214994, Frame 0982, or for which a copy thereof is attached.  3. From: Advanced Micro Devices, ATI Technologies ULC, ATI Technologies SRI, To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reed 022983, Frame 0433, or for which a copy thereof is attached.  3. From: Advanced Micro Devices, ATI Technologies ULC, ATI Technologies SRI, To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reed 022983, Frame 0433, or for which a copy thereof is attached.  As required by 97 CFR 378(5)(1)(1), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being authoritied for recordation pursuant to 37 CFR 3.1.  INCITE: A separation opy (i.e., a rea copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment of the USPTO. See MPEP 302.08; The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.  I/Christopher C. Winstade/ Registration No. 36.308  Printed or Typed Name Altomey/Agent of Record  Title	A. A assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame or a true copy of the original assignment is attached.
The document was recorded in the United States Patent and Trademark Office at Reel 014894. Frame 0682, or for which a copy thereof is attached.  2. From: ATI Technologies Inc. To: Broadcomert was recorded in the United States Patent and Trademark Office at Reel 02263. Frame 0233. or for which a copy thereof is attached.  Advanced Micro Devices. ATI Technologies U.C. ATI Technologies SRI. To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reel 022083. Frame 0433. or for which a copy thereof is attached.  Additional documents in the chain of sitle are listed on a supplemental sheet.  As required by 37 CFR 3.78(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignment of title from the original owner to the assignment of the Incorporation of title from the original owner to the assignment of the Incorporation of title from the original owner to the assignment of the Incorporation of title from the original owner to the assignment of the Incorporation o	OR  B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:
The document was recorded in the United States Patent and Trademark Office at Reel 021679. Frame 0230, or for which a copy thereof is attached.  3. From: Advanced Micro Devices, ATI Technologies U.L.C, ATI Technologies SRL. To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reel 022083. Frame 0433, or for which a copy thereof is attached.  Additional documents in the chain of title are listed on a supplemental sheet.  As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrantly is being, submitted for recordation pursuant to 37 CFR 3.11.  [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR 978.13, to record the assignment in the records of the USPTO_See MPEP 302.08]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    Christopher C. Winslade/	The document was recorded in the United States Patent and Trademark Office at
The document was recorded in the United States Patent and Trademark Office at Reel 021679. Frame 0230, or for which a copy thereof is attached.  3. From: Advanced Micro Devices, ATI Technologies U.L.C, ATI Technologies SRL. To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Reel 022083. Frame 0433, or for which a copy thereof is attached.  Additional documents in the chain of title are listed on a supplemental sheet.  As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrantly is being, submitted for recordation pursuant to 37 CFR 3.11.  [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR 978.13, to record the assignment in the records of the USPTO_See MPEP 302.08]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    Christopher C. Winslade/	2. From: ATI Technologies Inc. To: ATI Technologies ULC
3. From: Advanced Micro Devices. ATL Technologies U.C. ATL Technologies SRL To: Broadcom Corporation The document was recorded in the United States Patent and Trademark Office at Real (12208). Frame 0433, or for which a copy thereof is attached.  Additional documents in the chain of title are listed on a supplemental sheet.  As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.  [NOTE: A separate copy (i.e., a two cyp of the original assignment document(e)) must be submitted to Assignment Division in accordance with 57 CFR Part 3, to record the assignment in the records of the USPTO. Sea MPEP 302.09]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.  //Christopher C. Winslade Signature Date Christopher C. Winslade Registration No. 36,308  Printed or Typed Name Attorney/Agent of Record Title	
The document was recorded in the United States Patent and Trademark Office at Reel 022083. Frame 0433, or for which a copy thereof is attached.    Additional documents in the chain of title are listed on a supplemental sheet.    As required by 37 CFR 3.73(b)(1)(1), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.    NOTE: A separate copy (A.S. a use copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08   The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    /Christopher C. Winslade	Reel 021679, Frame 0230, or for which a copy thereof is attached.
The document was recorded in the United States Patent and Trademark Office at Reel 022083. Frame 0433, or for which a copy thereof is attached.    Additional documents in the chain of title are listed on a supplemental sheet.    As required by 37 CFR 3.73(b)(1)(1), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.    NOTE: A separate copy (A.S. a use copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08   The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    /Christopher C. Winslade	3 From: Advanced Micro Devices, ATI Technologies ULC, ATI Technologies SRI. To: Broadcom Corporation
Additional documents in the chain of title are listed on a supplemental sheet.  As required by 37 CFR 3.73(b)(1)(l), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.  (NOTE: A spearate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignment.  (/Christopher C. Winslade/ Signature Christopher C. Winslade/ Registration No. 36,308  Printed or Typed Name Attorney/Agent of Record Title	
As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.  [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    Christopher C. Winslade/   January 26, 2009	Reel 022083, Frame 0433, or for which a copy thereof is attached.
concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.  (NOTE: A spearate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]  The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    Very continuous or very cont	☐ Additional documents in the chain of title are listed on a supplemental sheet.
/Christopher C. Winslade/ Signature Christopher C. Winslade Christopher C. Winslade Registration No. 36,308 Printed or Typed Name Attorney/Agent of Record Title	accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]
Signature Date Christopher C. Winslade Registration No. 38,308 Printed or Typed Name Attorney/Agent of Record Title	The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.
Christopher C. Winniade 312-775-8000 Registration No. 38,308 Printed or Typed Name Telephone Number Attorney/Agent of Record	
Registration No. 38,308 Printed or Typed Name Attorney/Agent of Record Title	
Printed or Typed Name Telephone Number Attorney/Agent of Record Title	
Attorney/Agent of Record Title	
Title	,
	Attorney/Agent of Record
TO THE STATE OF TH	Title
	This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process

are adjusted to the control of the property of the control of the Box 1450, Alexandria, VA 22313-1450.